

Form PTO-1449

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
(Use several sheets if necessary)
Docket Number (Optional)  
FOM-139.01Application Number  
Not Yet Assigned 10/652,938Applicant  
Champion et al.Filing Date  
Herewith September 9, 2003Group Art Unit  
Not Yet Assigned 2858**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WB	A1	5,609,059	03/11/97	McEwan	73	290	12/19/94
WB	A2	6,216,540 B1	04/17/01	Nelson et al.	73	633	12/10/96
WB	A3	6,229,476 B1	05/08/01	Lütke et al.	342	124	11/22/99
WB	A4	6,250,601 B1	06/26/01	Kolar et al.	251	129.04	07/17/98
WB	A5	6,373,261 B1	04/16/02	Kielb et al.	324	644	10/12/99
WB	A6	6,377,201 B1	04/23/02	Chu	342	22	06/03/98
WB	A7	6,477,474 B2	11/05/02	Diede	702	57	01/21/99

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages Etc.)

WB	C1	"Section 3: Ground Penetrating Radar" 4-GPR, <a href="http://sfu.ca/earth-sciences/courses/307/4-gpr.htm">http://sfu.ca/earth-sciences/courses/307/4-gpr.htm</a> , printed March 24, 2003, pp. 1-47					
WB	C2	"Project Minitest Final Report" Work completed under Contract AA 501031 (DG INF50) and JRC FPV Institutional, Issued September 10, 2001, 25 pages					
	C3	Case Study, "Fluid Level Sensing by Time Domain Reflectometry", Arthur D. Little, Cambridge Consultants, 1 pg. <span style="float: right;">NO DATE</span>					

EXAMINER

Walter Benson

DATE CONSIDERED

November 3, 2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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PTO/SB/08a (08-03)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/657,938
				Filing Date	September 9, 2003
				First Named Inventor	Champion, James Robert
				Art Unit	2858
				Examiner Name	NYA <i>W Benson</i>
				Attorney Docket Number	FOM-139.01
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
<i>WP</i>	BA	US-5,841,028A	11-24-1998	Belcher, Timothy Lloyd, et al.	
<i>WP</i>	BB	US- 6,229,476B1	05-08-2001	Thoren, Werner, et al.	
<i>NS</i>	BC	US- 3,208,281A	09-28-1965	Kalmus, Henry P., et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† <sup>3</sup>
		Country Code <sup>4</sup> - Number <sup>5</sup> - Kind Code <sup>6</sup> (if known)				
	AA	FR 2 763 682 A	11-27-1998	Comm Composants Soc Ind		

Examiner Signature	<i>Walter Benson</i>	Date Considered	<i>November 3, 2004</i>
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Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (Use several sheets if necessary)			Docket Number (Optional) FOM-139.01		Application Number 10/657,938	
			Applicant Champion et al.			
			Filing Date September 9, 2003		Group Art Unit 2858	
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WB	AA 6,137,282	10-2000	Macke, et al.	324	71.1	
WB	AB 6,608,489	08-2003	Yankielun, et al.	324	642	
WB	AC 6,307,380	10-2001	Hirai, et al.	324	533	
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO
	AL					
	AM					
	AN					
	AO					
	AP					
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages Etc.)						
	AQ					
	AR					
	AS					
EXAMINER	Walter Benson			DATE CONSIDERED November 3, 2004		
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